



Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)

Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B

Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – June / July 2021

II Semester

Class : I UG

Time : 3 Hours

Major : Information Technology

Max. Marks : 100

18BITC06 Object Oriented Programming with C++

Part A

10 x 1 = 10

Choose the Correct Answer

- _____ are the basic run-time entities in an object-oriented system. CO1K1
a. Objects b. Classes
c. Inheritance d. Polymorphism
- _____ are operators that are used to format the data display. CO1K1
a. Scope b. Member dereferencing
c. Manipulators d. Memory Management
- _____ is a special member function whose task is to initialize the objects of its class. CO2K1
a. Function b. Inline
c. Constructor d. Destructor
- _____ is used to destroy the objects that have been created by a constructor. CO2K2
a. Function b. Inline
c. Constructor d. Destructor
- The mechanism of giving special meaning to an operator is known as CO3K1
a. scope b. manipulators
c. operator overloading d. inheritance
- The mechanism of deriving a class from another derived class is known as inheritance CO3K1
a. single b. multiple
c. hierarchical d. multi-level
- _____ function is used for accessing individual characters in a strings. CO4K2
a. Substr() b. At()
c. Find() d. First-find()
- A _____ is a derived data type that refers to another data variable by storing the variables memory address rather than data. CO4K2
a. virtual function b. string
c. pointer d. polymorphism
- The _____ errors occur due to the poor understanding of the problem and solution procedure. CO5K4
a. syntactic b. logic
c. installation d. run-time
- The keyword _____ is used to preface a block of statements which may generate exceptions. CO5K1
a. try b. catch
c. throw d. delete

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. List out the advantages of Object Oriented Programming. CO4K3
(or)
- 11.b. Illustrate the loops in C++ with examples. CO5K4
- 12.a. How to declare objects and member functions? CO4K3
(or)
- 12.b. Explain about the overloading of member functions. CO5K3
- 13.a. List out the rules for operator overloading in C++. CO3K3
(or)
- 13.b. Explain in detail about Virtual base classes in C++. CO3K2
- 14.a. Illustrate the concept pointer with suitable example. CO4K3
(or)
- 14.b. Describe the pointer to derived classes with example program. CO4K3
- 15.a. Review about file stream classes in C++. CO5K2
(or)
- 15.b. Describe file modes in C++. CO5K2

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. Describe the key concepts of object oriented programming . CO1K2
(or)
- 16.b. Explain in detail about inline functions with suitable examples. CO3K2
- 17.a. Demonstrate the friend functions with example program. CO3K3
(or)
- 17.b. Explain in detail about Constructors in C++. CO3K2
- 18.a. Describe the overloading unary operators with examples. CO1K2
(or)
- 18.b. Explain the types of inheritance in detail. CO3K2
- 19.a. Explain in detail about the pointer to class and object with suitable examples. CO3K2
(or)
- 19.b. Demonstrate the use of virtual functions in C++. CO4K3
- 20.a. Explain in detail about the sequential read/write classes in C++. CO5K2
(or)
- 20.b. Explain in detail about the random access file operations. CO5K2
